Author Index of Volume 52

Abdou, M. S. A., 159
Adriaensens, P., 395
Aeiyach, S., 183
Ahmed, M. F., 147
Altindal, A., 291
André, J.-J., 57
Angely, L., 111, 273
Arbizzani, C., 329
Arribas, C., 101
Avdeev, V. V., 257

Baltá-Calleja, F. J., 101
Barbarella, G., 329
Baumgarten, M., 71
Beerden, A., 387
Bekaroğlu, O., 291
Belhadj-Tahar, N., 183
Bensebaa, F., 57
Bongini, A., 329
Brumlik, C. J., 299
Buckley, L. J., 353
Bulhões, L. O. S., 171

Cao, Y., 193
Carlsen, P. H., 401
Cava, M. P., 131
Chano, A., 377
Chen, S.-A., 261
Chosrovian, H., 213
Chu, M. L., 261
Collins, G. J., 299

Daikhin, L. I., 367
de Chanterac, H., 183
Dent, A. J., 383
Djigo, Y., 183
Dressel, M., 201
Dudeck, K. E., 353

Edge, S., 383
Eldridge, J. E., 201

Fang, Y., 261
Fourrier-Lamer, A., 183

Gautun, O. R., 401
Geckeler, K. E., 45
Geiser, U., 201
Gelan, J., 125, 387, 395
Grebner, D., 213
Gürek, A., 291

Hanack, M., 241
Hayashida, S., 241
Heeger, A. J., 193
Holdcroft, S., 159
Hoogmartens, I., 395
Hummel, H.-U., 1

Ikemoto, I., 87
Ishibashi, M., 87
Ito, A., 377
Itoh, H., 87

Karabunarliev, S., 71
Kiebooms, R., 395
Kikuchi, K., 87
Kitani, A., 21

Lacaze, P. C., 183, 305
Ladik, J., 1
Lazarev, G. G., 45
Lebedev, Ya. S., 45
Le Guennec, P., 401
Lei, J., 227
Leung, A. M., 159
Levi, M. D., 367
Liang, W., 227
Louwet, F., 125

MacDonald, J. E., 383
Mårdalen, J., 401
Martin, C. R., 227, 299
Mastragostino, M., 329
Mattoso, L. H. C., 171
McKinley, A. J., 131
Metzger, R. M., 131
Mochiduki, T., 87
Mostefai, M., 305
Müllen, K., 71
Myong-Hoon Lee, 319

Naarmann, H., 213
Nalimova, V. A., 257

Ogura, K., 21
Öztürk, Z. Z., 291

Palacios, J. M., 101
Peslerbe, G., 273
Petit, P., 57
Pham, M.-C., 305

Questaigne, V., 111

Rault-Berthelot, J., 111, 273
Raynor, J. B., 341
Rentsch, S., 213
Ressouche, E., 401
Rieker, A., 45
Roduit, P., 183
Rueda, D. R., 101
Rümler, W., 1

Saalfrank, P., 1
Saito, K., 87
Saitoh, H., 87
Samuelsen, E. J., 401
Sankarapapavinasam, S., 147
Sasaki, K., 21
Schlindwein, W. S., 341
Semenenko, K. N., 257
Suh Bong Rhee, 319

Taj, S., 147
Tanaka, K., 377
Tipikin, D. S., 45
Tormos, G. V., 131
Travers, J.-P., 401
Truong, V.-T., 33
Tyutyulkov, N., 71

Udod, I. A., 257
Underhill, A. E., 383

Vanderzande, D., 125, 387, 395
Van Dyke, L. S., 299

Wang, H. H., 201
Williams, J. M., 201
Wu, X.-L., 131

Yamabe, T., 377
Yamaguchi, Y., 51
Yano, J., 21
Yongku Kang, 319
Yoshino, H., 87
Yoshizawa, K. 377
Yu, Z., 299

Zambianchi, M., 329
Zi Wei Xie, 159
Zorin, V. A., 45

Subject Index of Volume 52

Absorption spectroscopy
size-dependent transient behaviour of thiophene oligomers studied by pico-second, 213
m-Aminophenol
electro-oxidative polymerization of, 147
Anions
effect of, on solution behaviour of poly(xylylene tetrahydrothiophenium chloride) and on elimination to poly(*p*-phenylene vinylene), 387

BEDT-TTF salts
analysis of IR conductivity of organic superconductor α-(BEDT-TTF)$_2$-$(NH_4)Hg(NCS)_4$, 201
Boron
energetics and gap engineering in alternating layer and intralayer substituted B–N–C compounds, 1

Carbon
C_4KHg and C_8KHg compound interaction with K and Na in liquid phase, 257
energetics and gap engineering in alternating layer and intralayer substituted B–N–C compounds, 1
'Cava'-poly(isothianaphthene)
^{13}C NMR analysis of, oligomers, 395
Charge-transport properties
effect of synthesis temperature on structure, doping level and, of polypyrrole, 227
^{13}C NMR analysis
of 'Cava'-poly(isothianaphthene) oligomers, 395
Complexing properties
influence of poly-dibenzo-crown ether treatments on their; application to Ag^+ extraction, 111
Compound interaction
C_4KHg and C_8KHg, with K and Na in liquid phase, 257
Conductive polymers
UV laser ablation of electronically, 299
Conductometric studies
EPR spectroscopic and, of polyaniline after combined action of high pressure and shearing deformation, 45
Crystal orbital study
on poly(phenylnitrene)s as potential organic ferromagnets, 377
Crystal structures
and physical properties of DIMET triiodides, 87

Dielectric behavior
complex, of polyaniline at microwave and millimeter-wave frequencies, 353
Dimethylbithiophenes
electrochemical and optical properties of poly(3-methylthiophenes) electrosynthesized by 3,3′-, 3,4′- and 4,4′-dimethyl-2,2′-bithiophenes, 329
DIMET triiodides
crystal structures and physical properties of, 87
Doping level
effect of synthesis temperature on structure, and charge-transport properties of polypyrrole, 227

Electrical conductivity
polypyrrole grown at surface of sulfonated polyethylene films; and stability, 101
synthesis and, of bridged macrocyclic Mn complexes, 241
Electrical properties
of tetraazamacrocycle-substituted phthalocyanines, 291
Electrocatalysis
extraction of metallic cations by anodically formed poly-dibenzo-18-crown-6 from aqueous solutions; key step in formation of metal–polymer materials used as electrode modifiers for, 273
Electrochemical properties
of polyaniline doped with poly(styrenesulfonic acid), 319
of poly(3-methylthiophenes) electrosynthesized by 3,3′-, 3,4′- and 4,4′-dimethyl-2,2′-bithiophenes, 329

Electrochemical response
kinetic difference between hydroquinone and Fe^{2+} in, of polyaniline-film-coated electrode, 21
Electrode(s)
kinetic difference between hydroquinone and Fe^{2+} in electrochemical response of polyaniline-film-coated, 21
synthesis and characterization of, modified by poly(1-naphthol) films doped with heteropolyanions, 305
Electrode modifiers
extraction of metallic cations by anodically formed poly-dibenzo-18-crown-6 from aqueous solutions; key step in formation of metal–polymer materials used as, for electrocatalysis, 273
Electromagnetic absorption
of polyanilines at microwave frequencies, 183
Electronic structure
of polydifluorosilane, polydifluorogermane and their alternating copolymer, 51
Electro-oxidative polymerization
of *m*-aminophenol, 147
Emeraldine
isotherms of protonation and titration curves of leucoemeraldine and, 367
Energetics
and gap engineering in alternating layer and intralayer substituted B–N–C compounds, 1
EPR
spectroscopic and conductometric studies of polyaniline after combined action of high pressure and shearing deformation, 45
ESR
effect of oxygen on phthalocyanine radicals; comparative study of two Li phthalocyanine powder derivatives by continuous and pulsed, 57
EXAFS
spectroscopy studies on polypyrrole bromide, 383
studies on some Fe-containing polypyrroles, 341
Exchange interaction
class of narrow-band high-spin organic polymers; polymers with indirect, 71

Film thickness
thermal degradation of polypyrrole; effect of temperature and, 33

Gap engineering
energetics and, in alternating layer and intralayer substituted B–N–C compounds, 1

Hydroquinone
kinetic difference between, and Fe^{2+} in electrochemical response of polyaniline-film-coated electrode, 21

IR conductivity
analysis of, of organic superconductor α-(BEDT-TTF)$_2$(NH_4)Hg(NCS)$_4$, 201
Iron
EXAFS studies on some Fe-containing polypyrroles, 341
kinetic difference between hydroquinone and Fe^{2+} in electrochemical response of polyaniline-film-coated electrode, 21

Kinetic difference
between hydroquinone and Fe^{2+} in electrochemical response of polyaniline-film-coated electrode, 21

Langmuir–Blodgett film
synthesis and LB film properties of some bifunctional TTF derivatives, 131
Leucoemeraldine
isotherms of protonation and titration curves of, and emeraldine, 367
Lithium
effect of oxygen on phthalocyanine radicals; comparative study of two Li phthalocyanine powder derivatives by continuous and pulsed ESR, 57

Magnetic susceptibility
of polyaniline in solution in non-polar organic solvents and in polyblends in poly(methyl methacrylate), 193
Manganese
synthesis and electrical conductivity of bridged macrocyclic Mn complexes, 241
Mercury
C_4KHg and C_8kHg compound interaction with K and Na in liquid phase, 257

Metallic cations
extraction of, by anodically formed poly-dibenzo-18-crown-6 from aqueous solutions; key step in formation of metal–polymer materials used as electrode modifiers for electrocatalysis, 273
Metal–polymer materials
extraction of metallic cations by anodically formed poly-dibenzo-18-crown-6 from aqueous solutions; key step in formation of, used as electrode modifiers for electrocatalysis, 273
Microlithography
laser, direct-write, of soluble polythiophenes, 159

Neutron diffraction studies
of deuterated and hydrogenated polyhexylthiophenes, 401
Nitrogen
energetics and gap engineering in alternating layer and intralayer substituted B–N–C compounds, 1

Optical properties
of poly(3-methylthiophenes) electrosynthesized by 3,3′-, 3,4′- and 4,4′-dimethyl-2,2′-bithiophenes, 329
Organic ferromagnets
crystal orbital study on poly(phenylnitrene)s as potential, 377
Organic polymers
class of narrow-band high-spin; polymers with indirect exchange interaction, 71
Organic superconductor
α-(BEDT-TTF)$_2$(NH$_4$)Hg(NCS)$_4$, analysis of IR conductivity of, 201
Oxygen
effect of, on phthalocyanine radicals; comparative study of two Li phthalocyanine powder derivatives by continuous and pulsed ESR, 57

Photovoltaic characteristics
effect of side-chain length on rectification and, of poly(3-alkylthiophene) Schottky barriers, 261
Phthalocyanine(s)
effect of oxygen on phthalocyanine radicals; comparative study of two Li phthalocyanine powder derivatives by continuous and pulsed ESR, 57
electrical properties of tetraazamacrocycle-substituted, 291
Physical properties
crystal structures and, of DIMET triiodides, 87
Poly(3-alkylthiophene)
effect of side-chain length on rectification and photovoltaic characteristics of, Schottky barriers, 261
Polyaniline(s)
complex dielectric behavior of, at microwave and millimeter-wave frequencies, 353
electrochemical properties of, doped with poly(styrenesulfonic acid), 319
electromagnetic absorption of, at microwave frequencies, 183
EPR spectroscopic and conductometric studies of, after combined action of high pressure and shearing deformation, 45
kinetic difference between hydroquinone and Fe^{2+} in electrochemical response of polyaniline-film-coated electrode, 21
magnetic susceptibility of, in solution in non-polar organic solvents and in polyblends in poly(methyl methacrylate), 193
Poly(*o*-anisidine) films
synthesis and characterization of, 171
Polyblends
magnetic susceptibility of polyaniline in solution in non-polar organic solvents and in, in poly(methyl methacrylate), 193
Poly-dibenzo-18-crown-6
extraction of metallic cations by anodically formed, from aqueous solutions; key step in formation of metal–polymer materials used in electrode modifiers for electrocatalysis, 273
Poly-dibenzo-crown ether
influence of, treatments on their complexing properties; application to Ag^+ extraction, 111
Polydifluorogermane
electronic structure of polydifluorosilane, and their alternating copolymer, 51

Polydifluorosilane
electronic structure of, polydifluorogermane and their alternating copolymer, 51
Polyethylene films
polypyrrole grown at surface of sulfonated; electrical conductivity and stability, 101
Polyhexylthiophenes
neutron diffraction studies of deuterated and hydrogenated, 401
Poly(isothianaphthene)
^{13}C NMR analysis of 'Cava'-, oligomers, 395
Poly(methyl methacrylate)
magnetic susceptibility of polyaniline in solution in non-polar organic solvents and in polyblends in, 193
Poly(3-methylthiophenes)
electrochemical and optical properties of, electrosynthesized by 3,3′-, 3,4′- and 4,4′-dimethyl-2,2′-bithiophenes, 329
Poly(1-naphthol) films
synthesis and characterization of electrodes modified by, doped with heteropolyanions, 305
Poly(1,4-phenylene-1,2-ethanediyl)
synthesis of, derivatives; adaptation of Wessling route, 125
Poly(*p*-phenylene vinylene)
effect of anions on solution behaviour of poly(xylylene tetrahydrothiophenium chloride) and on elimination to, 387
Poly(phenylnitrene)s
crystal orbital study on, as potential organic ferromagnets, 377
Polypyrrole(s)
effect of synthesis temperature on structure, doping level and charge-transport properties of, 227
EXAFS studies on some Fe-containing, 341
grown at surface of sulfonated polyethylene films; electrical conductivity and stability, 101
thermal degradation of; effect of temperature and film thickness, 33
Polypyrrole bromide
EXAFS spectroscopy studies on, 383
Poly(styrenesulfonic acid)
electrochemical properties of polyaniline doped with, 319
Polythiophenes
laser, direct-write microlithography of soluble, 159
Poly(xylylene tetrahydrothiophenium chloride)
effect of anions on solution behaviour of, and on elimination to poly(*p*-phenylene vinylene), 387
Potassium
C_4KHg and C_8KHg compound interaction with K and Na in liquid phase, 257
Protonation
isotherms of, and titration curves of leucoemeraldine and emeraldine, 367
Pressure
EPR spectroscopic and conductometric studies of polyaniline after combined action of high pressure and shearing deformation, 45

Rectification
effect of side-chain length on, and photovoltaic characteristics of poly(3-alkylthiophene) Schottky barriers, 261

Schottky barriers
effect of side-chain length on rectification and photovoltaic characteristics of poly(3-alkylthiophene), 261
Shearing deformation
EPR spectroscopic and conductometric studies of polyaniline after combined action of high pressure and, 45
Side-chain length
effect of, on rectification and photovoltaic characteristics of poly(3-alkylthiophene) Schottky barriers, 261
Silver
influence of poly-dibenzo-crown ether treatments on their complexing properties; application to Ag^+ extraction, 111
Sodium
C_4KHg and C_8KHg compound interaction with K and Na in liquid phase, 257
Solution behaviour
effect of anions on, of poly(xylylene tetrahydrothiophenium chloride) and

on elimination to poly(*p*-phenylene vinylene), 387
Stability
polypyrrole grown at surface of sulfonated polyethylene films; electrical conductivity and, 101
Structure
effect of synthesis temperature on, doping level and charge-transport properties of polypyrrole, 227
Synthesis
and characterization of electrodes modified by poly(1-naphthol) films doped with heteropolyanions, 305
and characterization of poly(*o*-anisidine) films, 171
and electrical conductivity of bridged macrocyclic Mn complexes, 241
and Langmuir–Blodgett film properties of some bifunctional TTF derivatives, 131
of poly(1,4-phenylene-1,2-ethanediyl) derivatives; adaptation of Wessling route, 125
Synthesis temperature
effect of, on structure, doping level and charge-transport properties of polypyrrole, 227

Temperature
thermal degradation of polypyrrole; effect of, and film thickness, 33
Tetraazamacrocycle
-substituted phthalocyanines; electrical properties of, 291
Tetrathiafulvalene
synthesis and Langmuir–Blodgett film properties of some bifunctional TTF derivatives, 131
Thermal degradation
of polypyrrole; effect of temperature and film thickness, 33
Thiophene oligomers
size-dependent transient behaviour of, studied by pico-second absorption spectroscopy, 213
Titration curves
isotherms of protonation and, of leucoemeraldine and emeraldine, 367
Transient behaviour
size-dependent, of thiophene oligomers studied by pico-second absorption spectroscopy, 213

UV laser ablation
of electronically conductive polymers, 299

Wessling route
synthesis of poly(1,4-phenylene-1,2-ethanediyl) derivatives; adaptation of, 125